

CLAIMS

I claim:

1. A mortise and tenon joint system, comprising:

a first board member comprised of wood having a first end and a tenon continuously extending from said first end, wherein said tenon has an oblong cross sectional shape with opposing rounded end portions;

a second board member having a second end and a mortise within said second end for snugly receiving said tenon, wherein said mortise has an oblong cross sectional shape with opposing rounded end portions corresponding to said tenon, and wherein said mortise has a cross sectional size larger than said tenon; and

a plurality of channels between a plurality of flat outer wall portions within said tenon for receiving adhesive, wherein said plurality of channels are comprised of:

a base channel adjacent said first end;

an end channel within a distal end of said tenon; and

at least one middle channel positioned between said base channel and said end channel, wherein said at least one middle channel is located a distance greater from said base channel than from said end channel;

wherein said plurality of channels are parallel to one another;

wherein each of said plurality of channels extend within an outer perimeter of said tenon;

wherein said at least one middle channel is comprised of a first channel and a second channel;

wherein said at least one middle channel is comprised of a first channel and a second channel;

wherein a distance between said first channel and said base channel is greater than a distance between said second channel and said end channel;

wherein said base channel is comprised of a tapered structure.

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2 2. A mortise and tenon joint system, comprising:

3 a first board member comprised of wood having a first end and a tenon
4 continuously extending from said first end, wherein said tenon has an oblong cross
5 sectional shape with opposing rounded end portions;

6 a second board member having a second end and a mortise within said second end
7 for snugly receiving said tenon, wherein said mortise has an oblong cross sectional shape
8 with opposing rounded end portions corresponding to said tenon, and wherein said mortise
9 has a cross sectional size larger than said tenon; and

10 a plurality of channels between a plurality of flat outer wall portions within said
11 tenon for receiving adhesive.
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13 3. The mortise and tenon joint system of Claim 2, wherein said plurality of
14 channels are comprised of:

15 a base channel adjacent said first end;

16 an end channel within a distal end of said tenon; and

17 at least one middle channel positioned between said base channel and said end
18 channel, wherein said at least one middle channel is located a distance greater from said
19 base channel than from said end channel.
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21 4. The mortise and tenon joint system of Claim 3, wherein said plurality of
22 channels are parallel to one another.
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24 5. The mortise and tenon joint system of Claim 3, wherein each of said plurality of
25 channels extend within an outer perimeter of said tenon.
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27 6. The mortise and tenon joint system of Claim 3, wherein said at least one middle
28 channel is comprised of a first channel and a second channel.
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1 7. The mortise and tenon joint system of Claim 6, wherein a distance between said
2 first channel and said base channel is greater than a distance between said second channel
3 and said end channel.

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5 8. The mortise and tenon joint system of Claim 3, wherein said base channel is
6 comprised of a tapered structure.

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8 9. A method of assembling a mortise and tenon joint, said method comprising the
9 steps of:

10 (a) providing a first board member comprised of wood having a first end and a
11 tenon continuously extending from said first end, wherein said tenon has an oblong cross
12 sectional shape with opposing rounded end portions, and wherein said tenon includes a
13 plurality of channels between a plurality of flat outer wall portions within said tenon for
14 receiving adhesive;

15 (b) providing a second board member having a second end and a mortise within
16 said second end, wherein said mortise has an oblong cross sectional shape with opposing
17 rounded end portions corresponding to said tenon, wherein said mortise has a cross
18 sectional size larger than said tenon;

19 (c) applying an adhesive to said tenon and/or said mortise; and

20 (d) positioning said tenon within said mortise until said first end of said first board
21 member is adjacent said second end of said second board member.

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23 10. The method of assembling a mortise and tenon joint of Claim 9, wherein said
24 plurality of channels are comprised of:

25 a base channel adjacent said first end;

26 an end channel within a distal end of said tenon; and

27 at least one middle channel positioned between said base channel and said
28 end channel, wherein said at least one middle channel is located a distance greater
29 from said base channel than from said end channel.

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2 11. The method of assembling a mortise and tenon joint of Claim 10, wherein said
3 plurality of channels are parallel to one another.
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5 12. The method of assembling a mortise and tenon joint of Claim 10, wherein each
6 of said plurality of channels extend within an outer perimeter of said tenon.
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8 13. The method of assembling a mortise and tenon joint of Claim 10, wherein said
9 at least one middle channel is comprised of a first channel and a second channel.
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11 14. The method of assembling a mortise and tenon joint of Claim 13, wherein a
12 distance between said first channel and said base channel is greater than a distance between
13 said second channel and said end channel.
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15 15. The method of assembling a mortise and tenon joint of Claim 10, wherein said
16 base channel is comprised of a tapered structure.
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